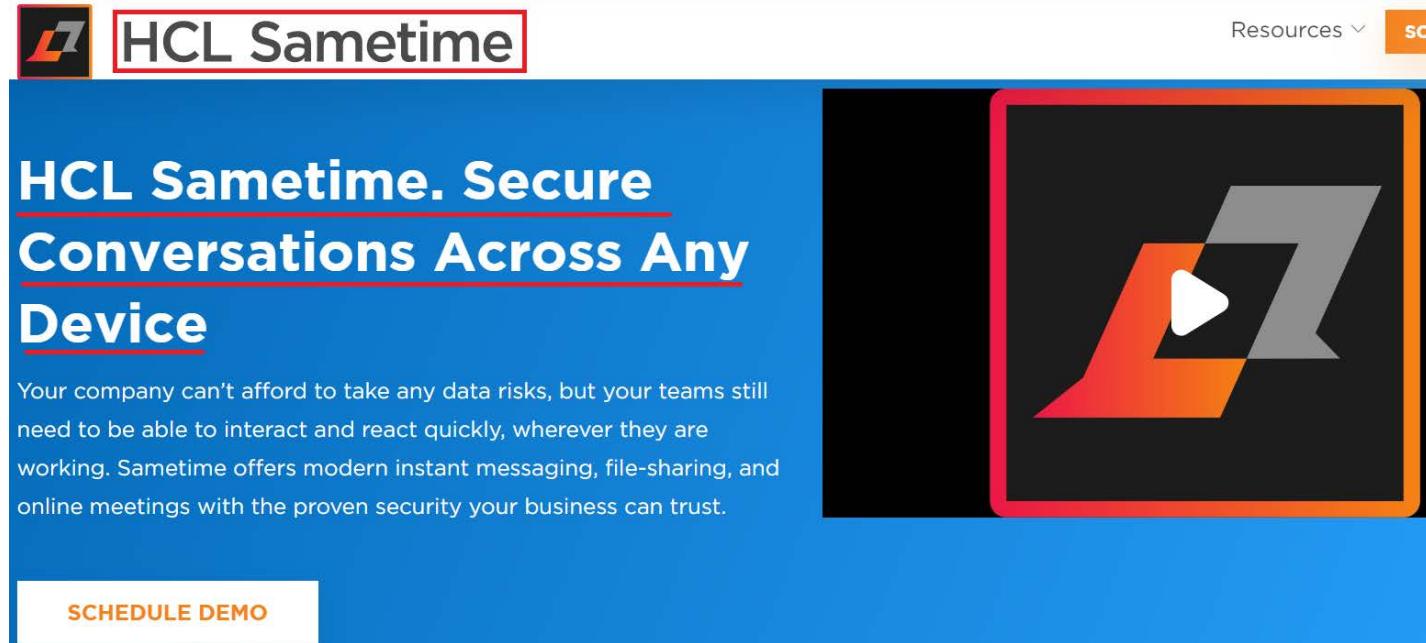


EXHIBIT H

US9591551	HCL Sametime (“The Accused Product”)
<p>1. Computer program product embodied on a non-transitory storage medium, the computer program product when executing on a wireless device configured to enable the wireless device, when located in a region, to initiate a network connection without using a network operator's home location register that covers that region, the computer program product configured to:</p>	<p>The accused product discloses a computer program product (e.g., HCL Sametime) embodied on a non-transitory storage medium (e.g., Smartphone's memory), the computer program product (e.g., HCL Sametime) when executing on a wireless device (e.g., Smartphone) configured to enable the wireless device (e.g., Smartphone), when located in a region, to initiate a network connection (e.g., SIP Invite) without using a network operator's home location register that covers that region.</p> <p>The accused product uses Internet or IP network for calling. As shown below, the accused product doesn't make use of home location register (e.g., HLR).</p>  <p>https://www.hcltechsw.com/products/sametime</p>

The logo consists of a stylized 'A' shape composed of two overlapping triangles. The top triangle is grey and the bottom triangle is orange/red.

HCL Sametime

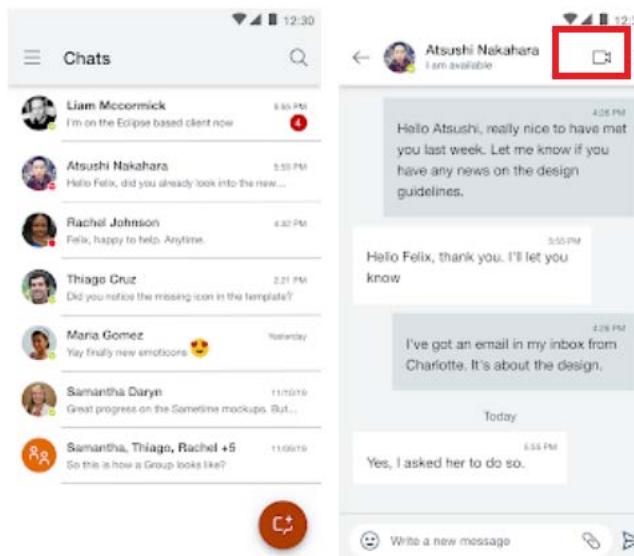
HCL Software Communication

3+

This app is compatible with your device.

Add to Wishlist

Install



The image shows two screenshots of the HCL Sametime app. The left screenshot displays the main 'Chats' screen with a list of recent conversations. The right screenshot shows a detailed view of a conversation with 'Atsushi Nakahara'. A red box highlights the 'More options' menu icon (three dots) in the top right corner of the detailed screen. The detailed screen also shows messages exchanged between Atsushi and Felix, including a message from Atsushi about design guidelines and a response from Felix.

<https://play.google.com/store/apps/details?id=com.hcl.android.sametime&hl=en>

HCL Sametime is a highly secure, persistent team chat app for the HCL Sametime platform. It allows users to communicate securely in real-time across devices on web, desktop or mobile.

It is ideal for cross-team chat in countries with strict data privacy and gravity laws, companies in regulated industries, and government entities who need to be able to ensure the security and auditability of their data. With v11, secure conversations just got a lot easier. From a new user experience to modernized industry-standard technologies, Sametime v11 the best, most feature-rich version yet.

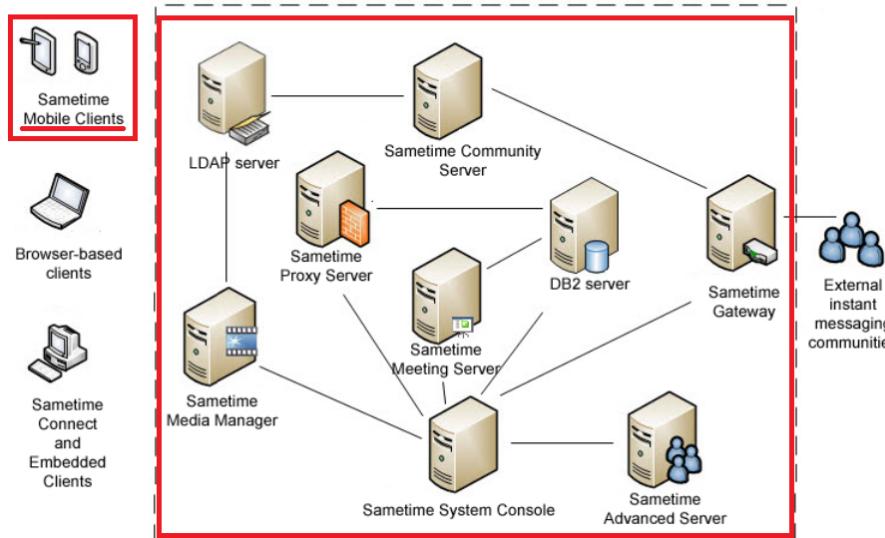
HCL Sametime works with your Sametime 10 and 11 server infrastructure.

<https://play.google.com/store/apps/details?id=com.hcl.android.sametime&hl=en>

Sametime server architecture

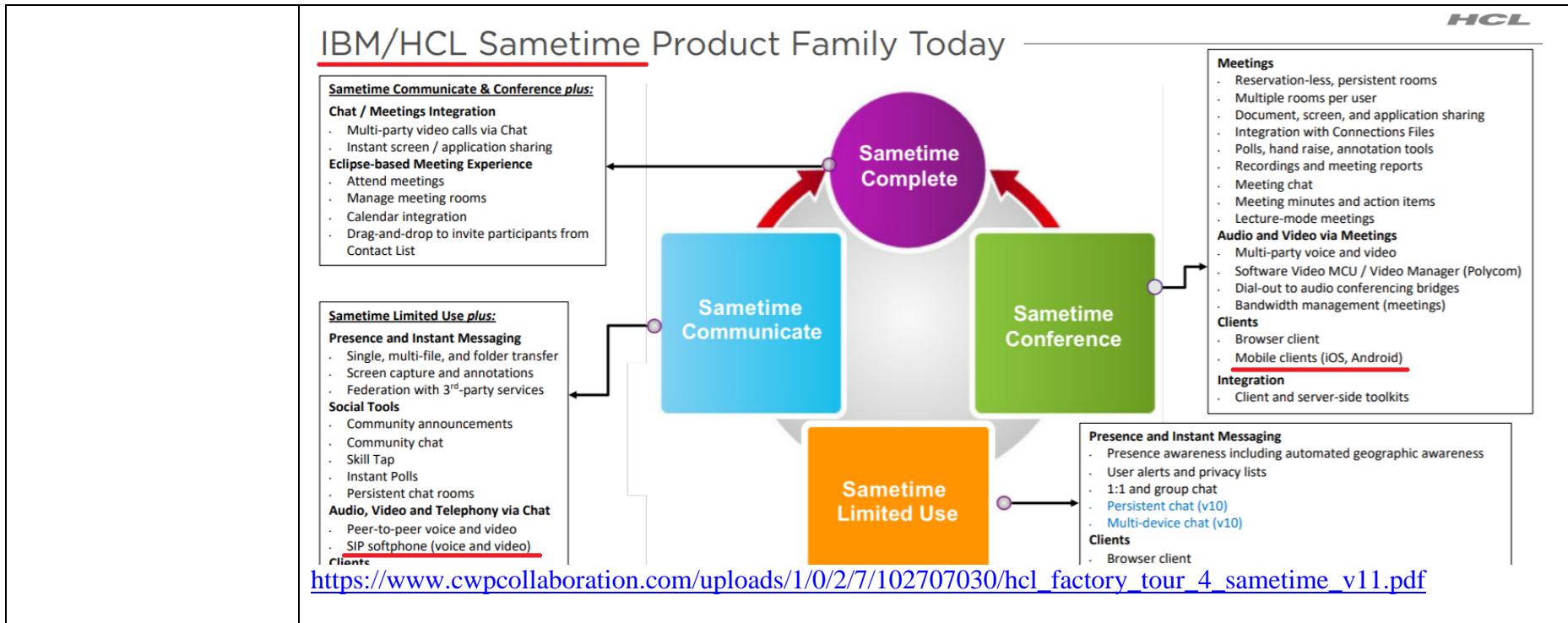
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https://help.hcltechsw.com/sametime/10.0/plan/over_server_arch.html

HCL

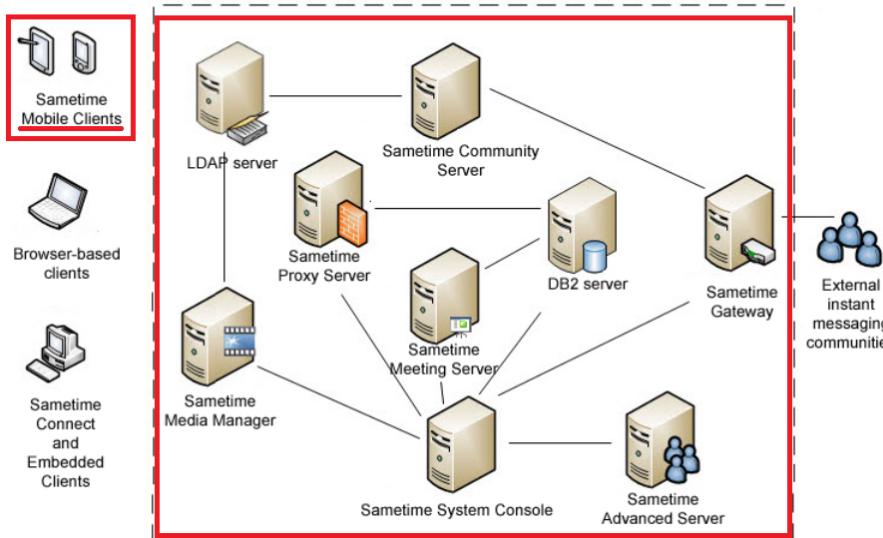


	<p style="text-align: center;">SIP: Session Initiation Protocol</p> <pre> sequenceDiagram participant Alice participant Bob participant Atlanta as atlanta.com . . . participant Biloxi as biloxi.com . . . Alice->>Atlanta: INVITE F1 Atlanta-->>Bob: 100 Trying F3 Bob-->>Alice: 100 Trying F5 Bob-->>Biloxi: INVITE F4 Biloxi-->>Bob: 180 Ringing F6 Bob-->>Alice: 180 Ringing F7 Bob-->>Alice: 200 OK F9 Alice-->>Bob: 200 OK F11 Bob-->>Alice: ACK F12 Alice->>Bob: Media Session Bob-->>Alice: BYE F13 Alice-->>Bob: 200 OK F14 </pre> <p>https://tools.ietf.org/html/rfc3261</p>
(a) contact a server to communicate with the server over a wireless link, and	The accused product contacts a server (e.g., HCL Sametime Server) to communicate with the server (e.g., HCL Sametime Server) over a wireless link (e.g., Wi-Fi/Cellular link).

Sametime server architecture

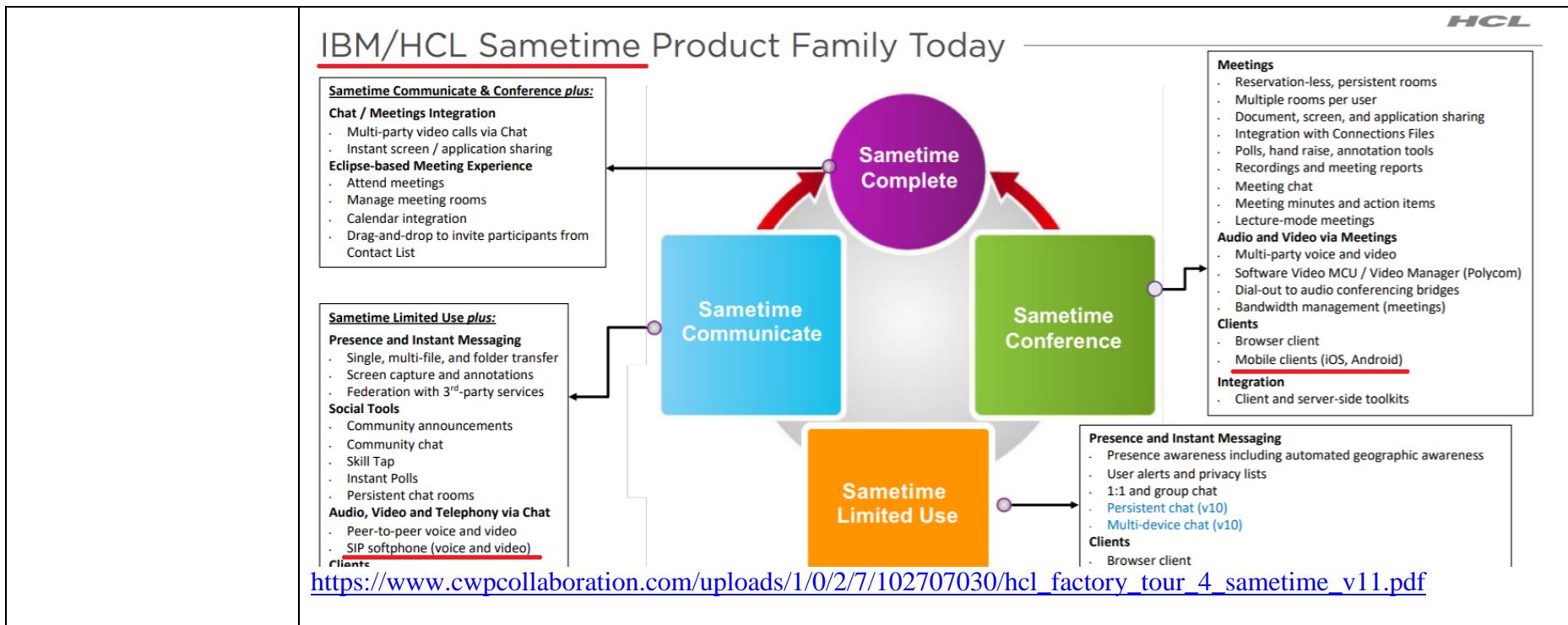
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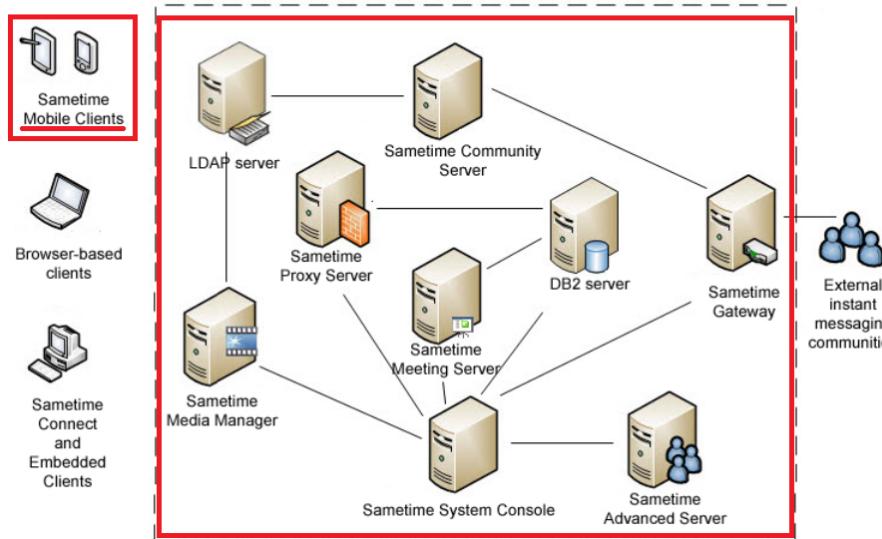


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(b) send, over the wireless link, data to the server that defines a call request;	The accused product sends, over the wireless link (e.g., Wi-Fi/Cellular link), data to the server (e.g., HCL Sametime Server) that defines a call request (e.g., Invite signal from caller to server).

Sametime server architecture

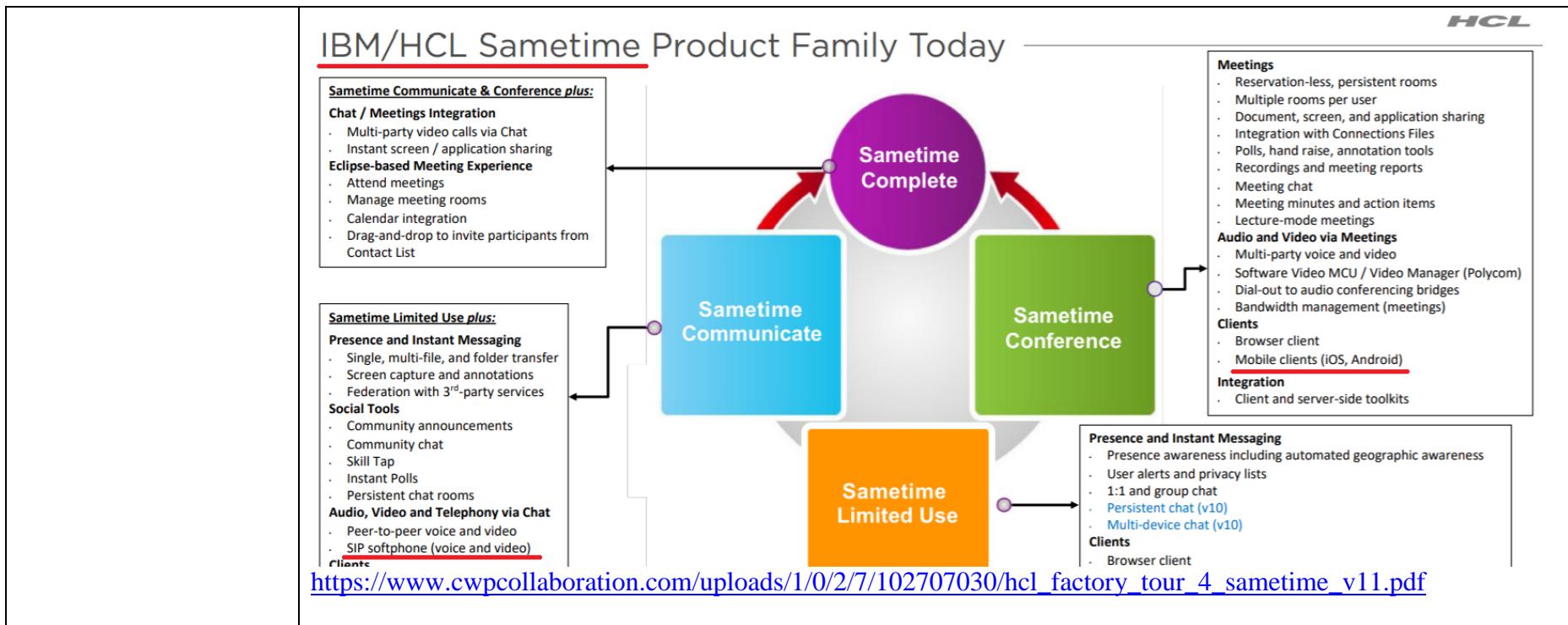
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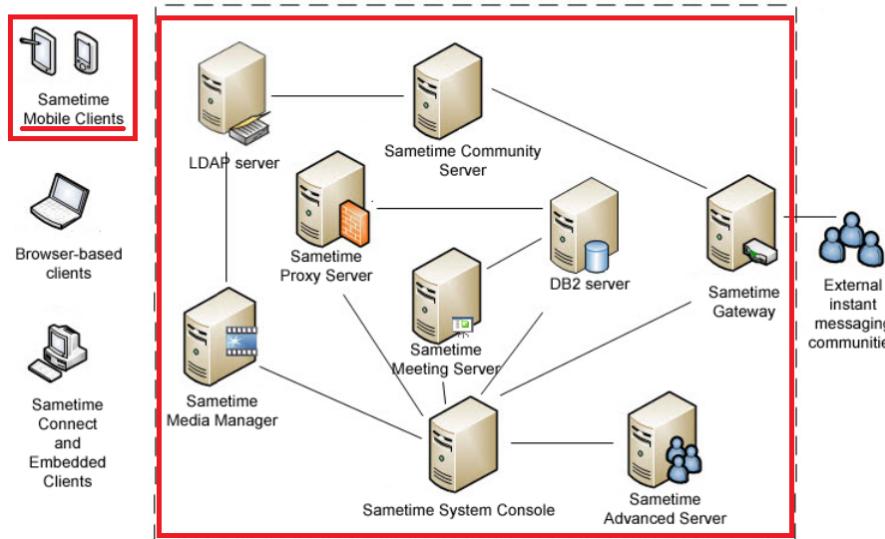
	<p style="text-align: center;">SIP: Session Initiation Protocol</p> <pre> graph LR subgraph CallFlow [SIP Call Flow] direction TB A[INVITE F1] --> B[100 Trying F3] B --> C[INVITE F2] C --> D[100 Trying F5] D --> E[180 Ringing F7] E --> F[200 OK F9] F --> G[ACK F12] G --> H[Media Session] H --> I[BYE F13] I --> J[200 OK F14] end subgraph Network [Network] direction TB P1[proxy atlanta.com] --- P2[proxy biloxi.com] P2 --- A P2 --- B P2 --- C P2 --- D P2 --- E P2 --- F P2 --- G P2 --- I P2 --- J P1 --- A P1 --- B P1 --- C P1 --- D P1 --- E P1 --- F P1 --- G P1 --- I P1 --- J end subgraph Participants [Participants] direction TB S1[Alice's softphone] --- A S2[Bob's SIP Phone] --- B S2 --- C S2 --- D S2 --- E S2 --- F S2 --- G S2 --- I S2 --- J end </pre> <p>https://tools.ietf.org/html/rfc3261</p>
wherein, in response to the call request, a software application running on the server decides on the appropriate routing to a 3rd party end-user for	In response to the call request (e.g., Invite signal from caller to server), a software application (e.g., software running at HCL Sametime server to route/manage calls) running on the server (e.g., HCL Sametime Server) decides on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using HCL Sametime) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.

that call request without using the network operator's home or visitor location register.

Sametime server architecture

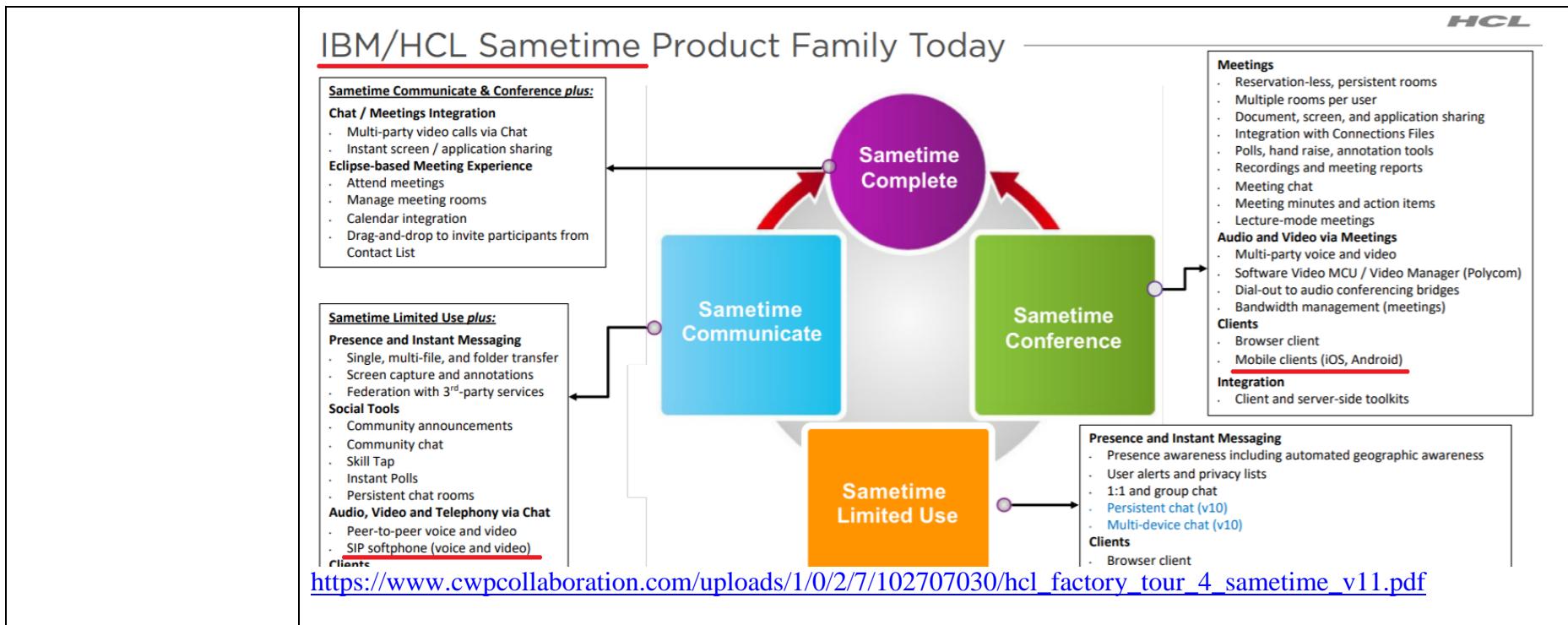
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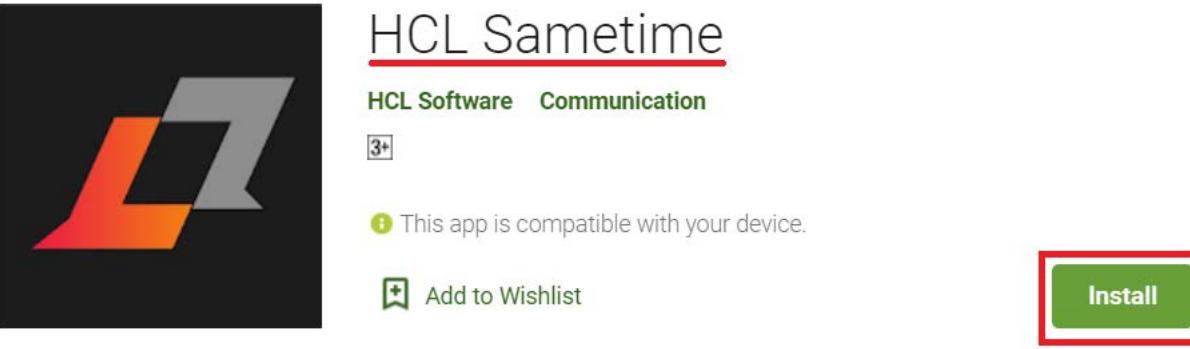
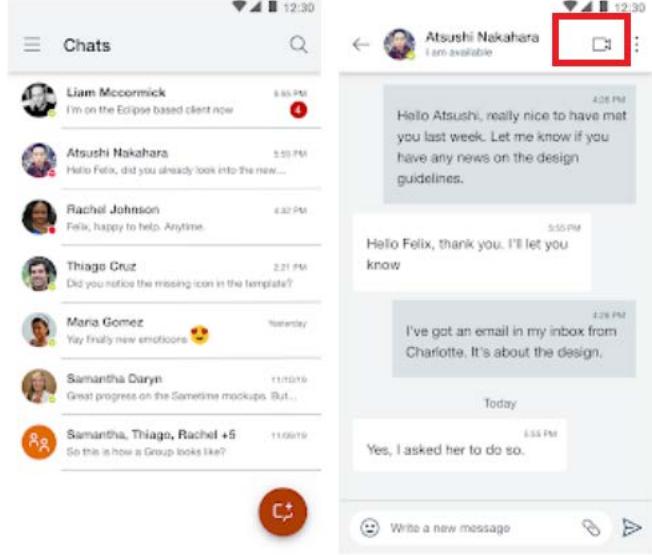


https://help.hcltechsw.com/sametime/10.0/plan/over_server_arch.html

HCL



	<p>SIP: Session Initiation Protocol</p> <pre> graph LR A[alice.com proxy] --- B[biloxi.com proxy] A --- C[Alice's softphone] B --- D[Bob's SIP Phone] C -. "INVITE F1" .-> D D -. "100 Trying F3" .-> C C -. "100 Trying F5" .-> D D -. "180 Ringing F6" .-> C C -. "180 Ringing F8" .-> D D -. "200 OK F9" .-> C C -. "200 OK F11" .-> D D -. "ACK F12" .-> C C -. "Media Session" .-> D D -. "BYE F13" .-> C C -. "200 OK F14" .-> D </pre> <p>https://tools.ietf.org/html/rfc3261</p>
3. Computer program product of claim 1, wherein the computer program product is downloadable to the wireless device.	The computer program product (e.g., HCL Sametime) is downloadable (e.g., install) to the wireless device (e.g., Smartphone).

	  <p>https://play.google.com/store/apps/details?id=com.hcl.android.sametime&hl=en</p>
4. Computer program product of claim 1, wherein the computer	The computer program product (e.g., HCL Sametime) is embedded to the wireless device (e.g., Smartphone).

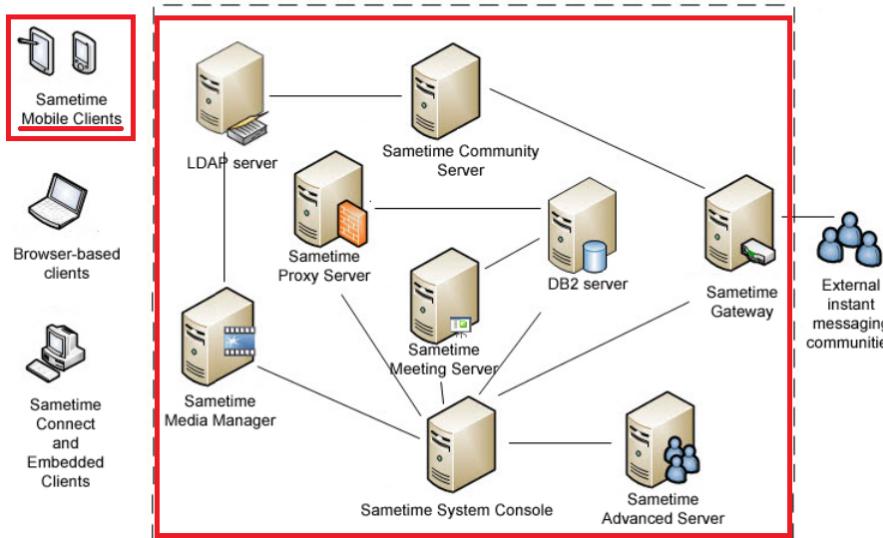
<p>program product is embedded in the wireless device.</p>	<p>HCL Sametime</p> <p>HCL Software Communication</p> <p>3+</p> <p>This app is compatible with your device.</p> <p>Add to Wishlist</p> <p>Install</p> <p>Chats</p> <ul style="list-style-type: none"> Liam McCormick: I'm on the Eclipse based client now Atsushi Nakahara: Hello Felix, did you already look into the new... Rachel Johnson: Felix, happy to help. Anytime. Thiago Cruz: Did you notice the missing icon in the template? Maria Gomez: Yay finally new emoticons 😊 Samantha Daryn: Great progress on the Sametime mockups. But... Samantha, Thiago, Rachel +5: So this is how a Group looks like? <p>Atsushi Nakahara: I am available</p> <p>Hello Atsushi, really nice to have met you last week. Let me know if you have any news on the design guidelines.</p> <p>Hello Felix, thank you. I'll let you know</p> <p>I've got an email in my inbox from Charlotte. It's about the design.</p> <p>Today</p> <p>Yes, I asked her to do so.</p> <p>Write a new message</p>
<p>5. Computer program product of claim 1,</p>	<p>Computer program product (e.g., HCL Sametime) uses an application server (e.g., HCL Sametime Server).</p>

wherein the server is an application server.

Sametime server architecture

A typical IBM® Sametime® deployment includes a cluster of servers for instant messaging on an IBM Domino®-based platform and other clustered servers running on IBM WebSphere® Application Server that support meetings, audio-visual services, and connections to a variety of clients.

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https://help.hcltechsw.com/sametime/10.0/plan/over_server_arch.html

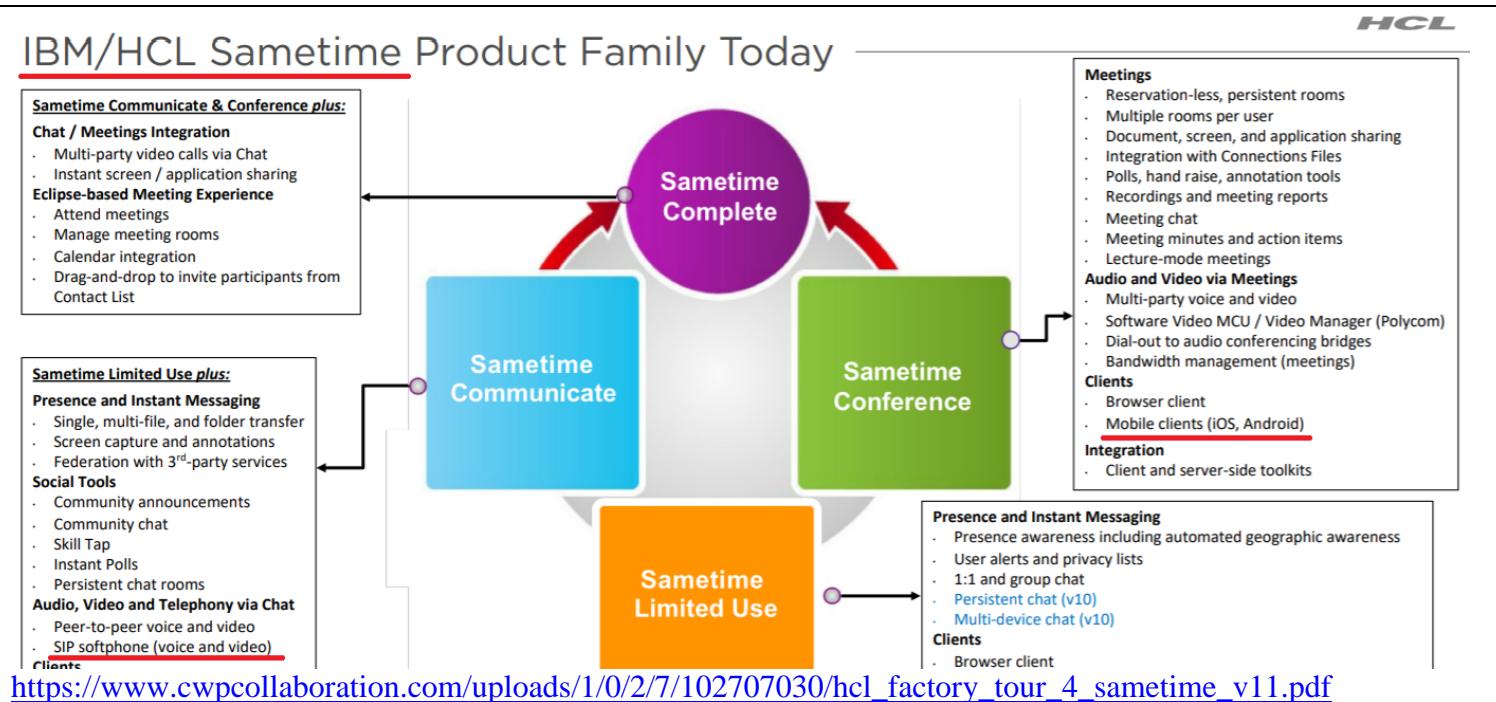
7. Computer program product of claim 1, wherein the wireless device uses the internet to communicate with the server.

Computer program product (e.g., HCL Sametime) uses the wireless device (e.g., Smartphone) uses the internet (e.g., Wi-Fi/Cellular) to communicate with the server (e.g., HCL Sametime Server).

9. Computer program product of claim 1, wherein the computer program product is

The computer program product (e.g., HCL Sametime) is configured to receive calls (e.g., voice calls) at the wireless device (e.g., Smartphone).

configured to receive calls at the wireless device.

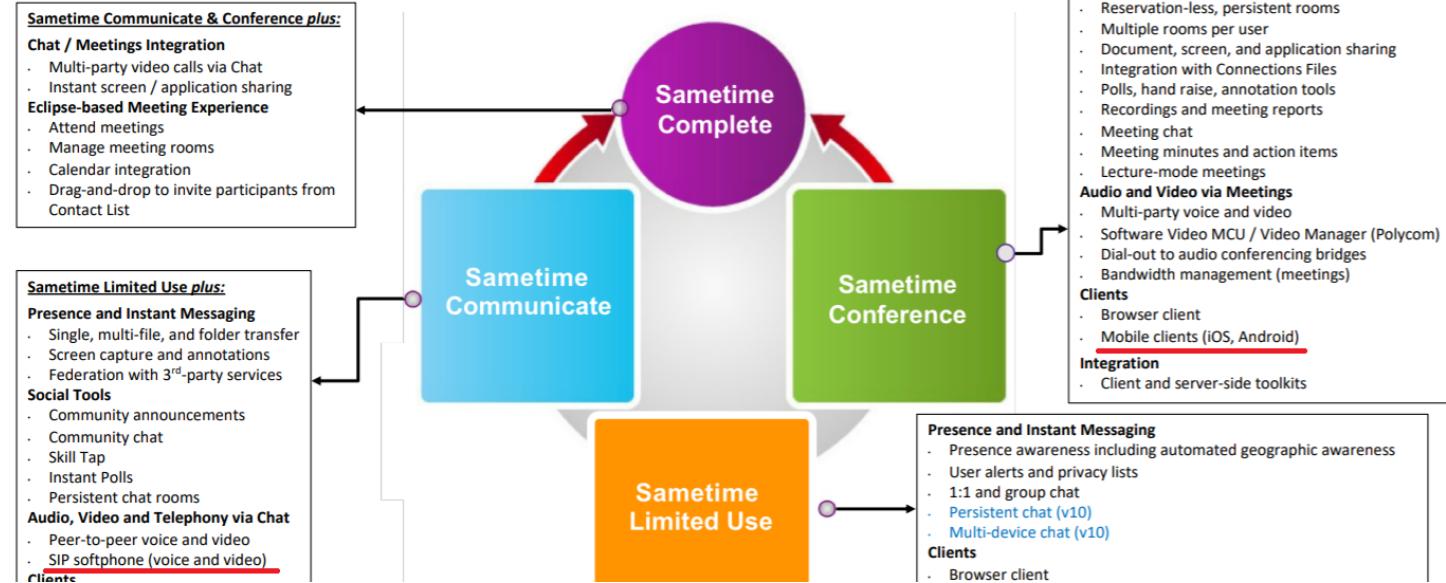


12. Computer program product of claim 1, wherein the computer program product is configured to provide messages over the internet, or HTTP over the internet communication from the wireless device to the server.

The computer program product (e.g., HCL Sametime) is configured to provide messages (e.g., Instant Messages (IM)) over the internet (e.g., Wi-Fi/Cellular) from the wireless device (e.g., Smartphone) to the server (HCL Sametime Server).

HCL

IBM/HCL Sametime Product Family Today



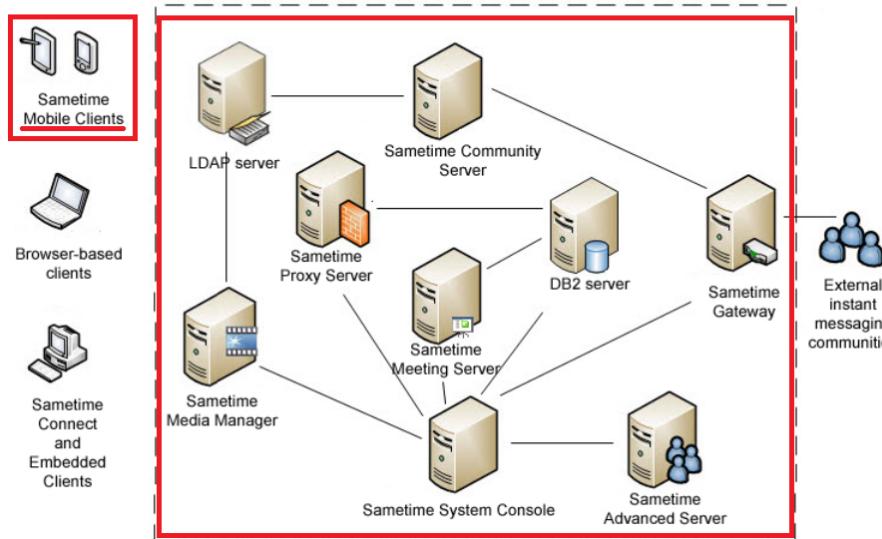
14. Computer program product of claim 1, wherein the computer program product is configured to establish and control communication between the wireless device and the server.

The computer program product is configured to establish and control communication (e.g., SIP communication) between the wireless device (e.g., Smartphone) and the server (e.g., HCL Sametime Server).

Sametime server architecture

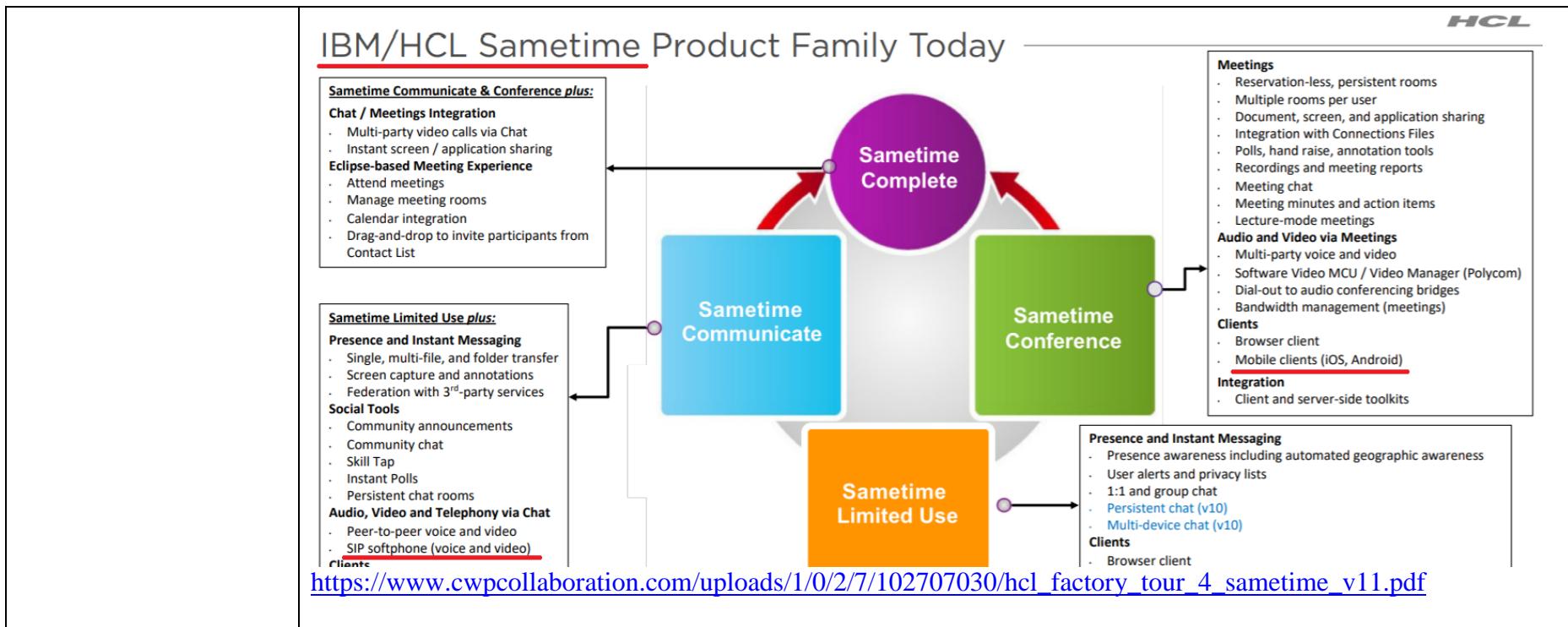
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	<p style="text-align: center;">SIP: Session Initiation Protocol</p> <pre> graph LR subgraph Network [SIP Call Flow] direction TB Alice["Alice's softphone"] --> INVITE F1 Proxy1["atlanta.com proxy"] Proxy1 --> 100 Trying F3 BobPhone["Bob's SIP Phone"] BobPhone --> INVITE F2 Proxy2["biloxi.com proxy"] Proxy2 --> 100 Trying F5 Alice Alice --> 180 Ringing F8 BobPhone BobPhone --> 180 Ringing F7 Alice Alice --> 200 OK F10 BobPhone BobPhone --> 200 OK F9 Alice Alice --> ACK F12 BobPhone BobPhone --> Media Session Alice Alice --> BYE F13 BobPhone BobPhone --> 200 OK F14 Alice end </pre> <p>https://tools.ietf.org/html/rfc3261</p>
22. A method of enabling a wireless device, located in a region, to initiate a network connection without using a network operator's home location	<p>The accused product discloses a method of enabling a wireless device (e.g., Smartphone), located in a region, to initiate a network connection (e.g., SIP Invite) without using a network operator's home location register that covers that region.</p> <p>The accused product uses Internet or IP network for calling. Hence, it bypasses network operator's home location register as Wi-Fi/Cellular or internet based calling does not require home location register (HLR).</p>

register that covers that region, comprising the steps of:



HCL Sametime

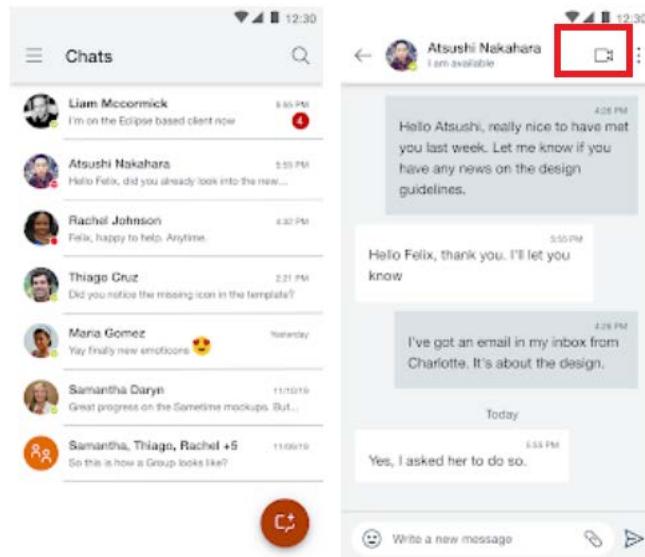
HCL Software Communication

3+

This app is compatible with your device.

Add to Wishlist

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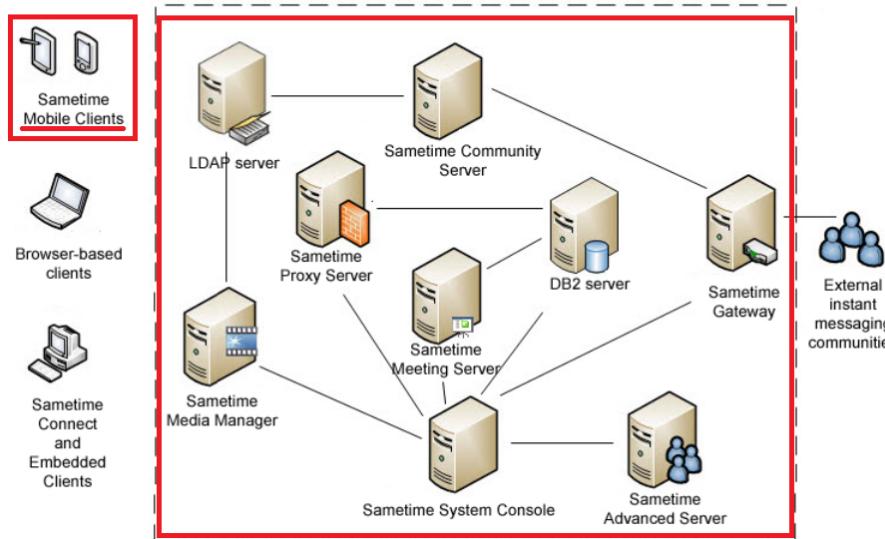
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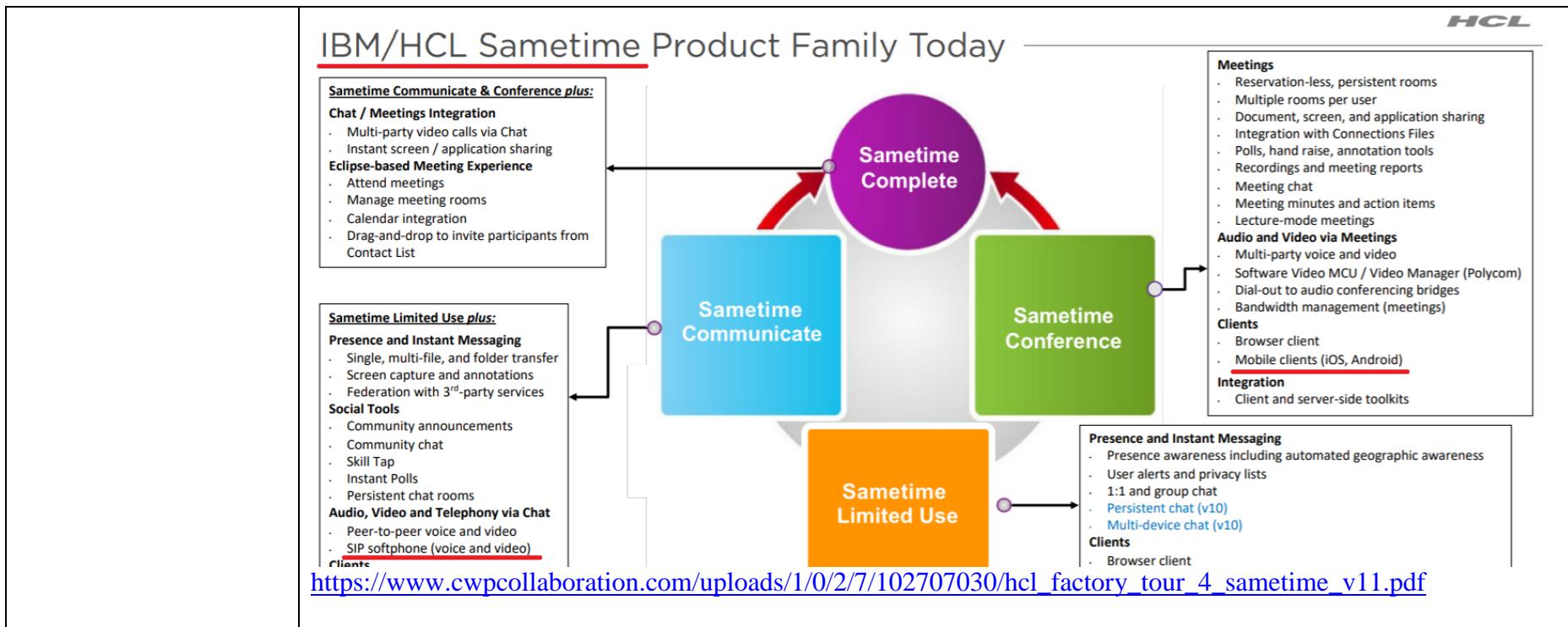
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(a) the wireless device using a module that is responsible for contacting a server to communicate with the server over a wireless link, wherein the	The wireless device (e.g., Smartphone) using a module (e.g., HCL Sametime application) that is responsible for contacting a server (e.g., HCL Sametime Server) to communicate with the server (e.g., HCL Sametime Server) over a wireless link (e.g., Wi-Fi/Cellular link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., HCL Sametime application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).

wireless device includes the module that is implemented as software and that is downloadable to the wireless device;



HCL Sametime

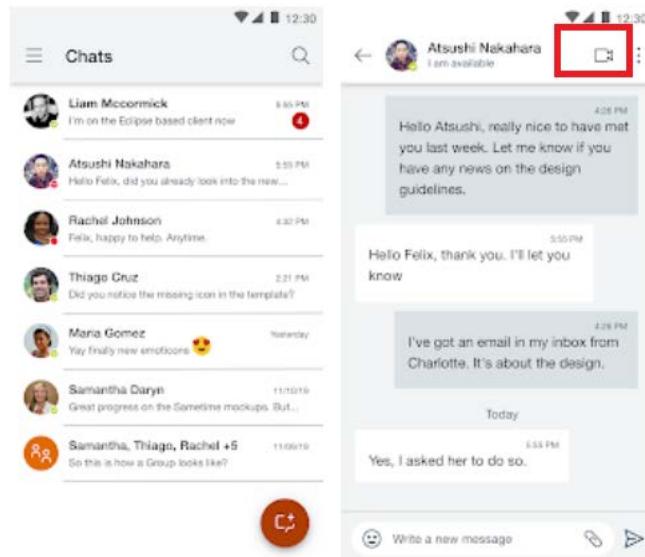
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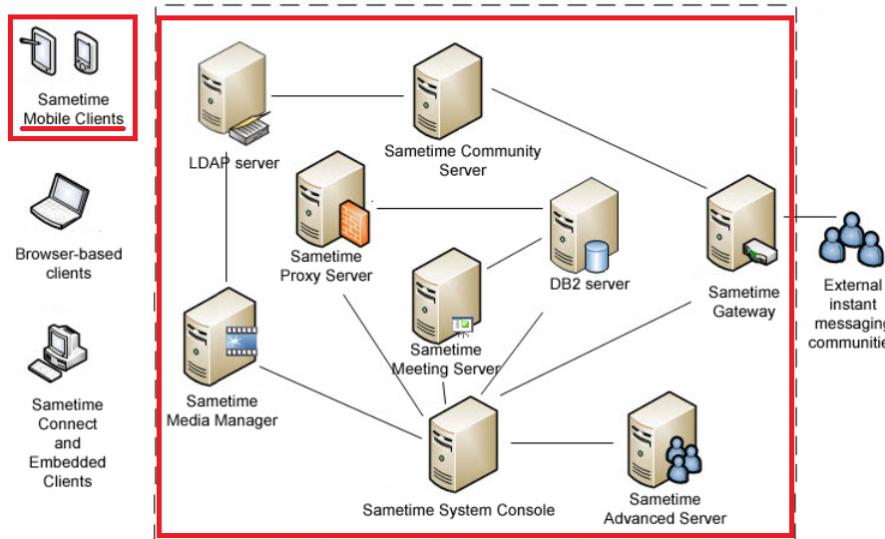
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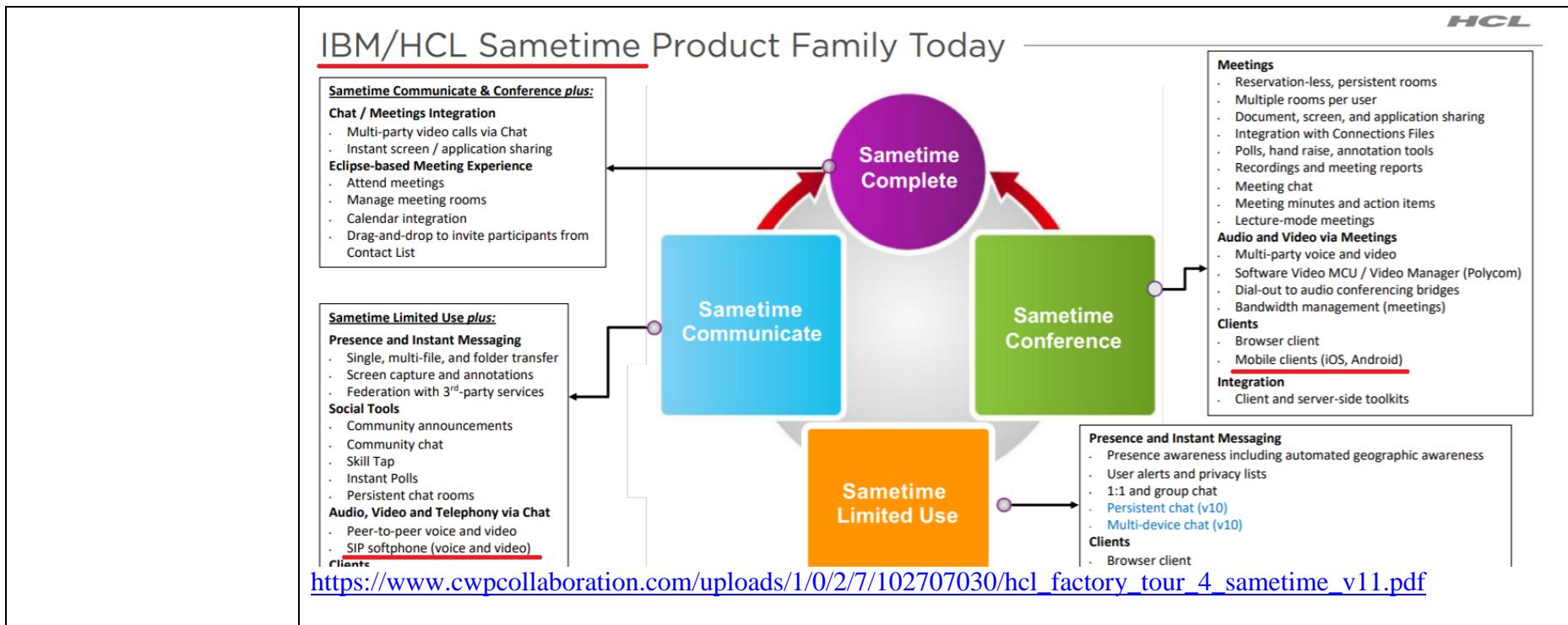
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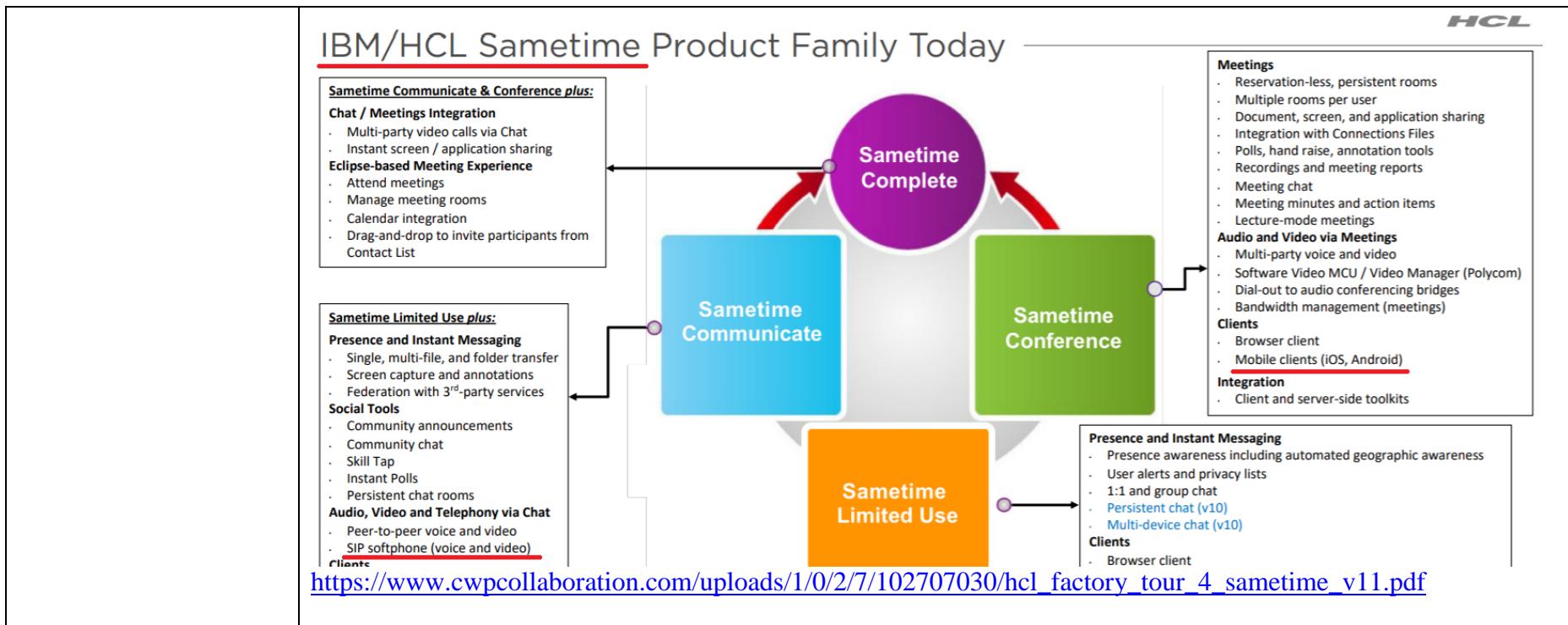
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(b) the wireless device using the module to send, over the wireless link, data to the server that defines a call request;	The wireless device (e.g., Smartphone) using the module (e.g., HCL Sametime application) to send, over the wireless link (e.g., Wi-Fi/Cellular link), data to the server (e.g., HCL Sametime Server) that defines a call request (e.g., Invite signal from caller to server).

HCL

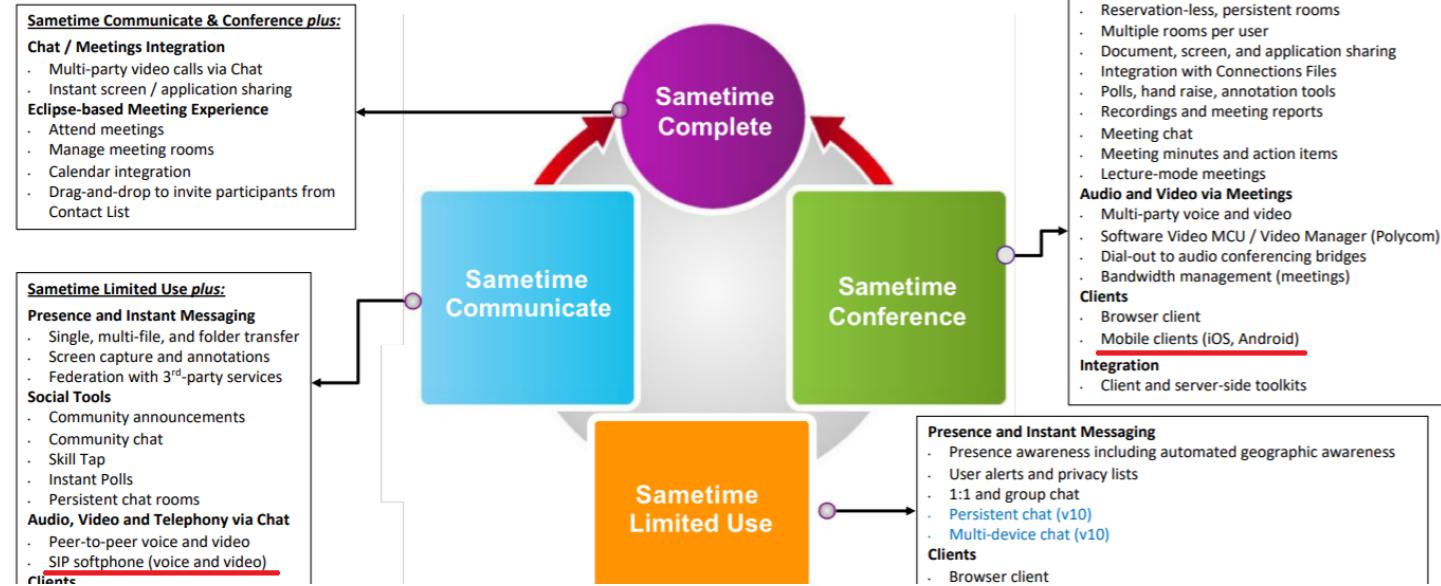


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(c) in response to the call request, a software application running on the server deciding on the appropriate routing to a 3rd party end-user for that call request	In response to the call request (e.g., Invite signal from caller to server), a software application (e.g., software running at HCL Sametime server to route/manage calls) running on the server (e.g., HCL Sametime Server) deciding on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using HCL Sametime) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.

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IBM/HCL Sametime Product Family Today

HCL



https://www.cwpcollaboration.com/uploads/1/0/2/7/102707030/hcl_factory_tour_4_sametime_v11.pdf

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23. A system comprising a wireless device located in a region and a server for enabling the wireless device to communicate with the server to	The accused product discloses a system comprising a wireless device (e.g., Smartphone) located in a region and a server (e.g., HCL Sametime Server) for enabling the wireless device (e.g., Smartphone) to communicate with the server (e.g., HCL Sametime Server) to initiate a network connection (e.g., SIP Invite) without using a network operator's home location register that covers that region, wherein the server includes a software application (e.g., software running at HCL Sametime server to route/manage calls) that functions as a calls manager.

initiate a network connection without using a network operator's home location register that covers that region, wherein the server includes a software application that functions as a calls manager, wherein:



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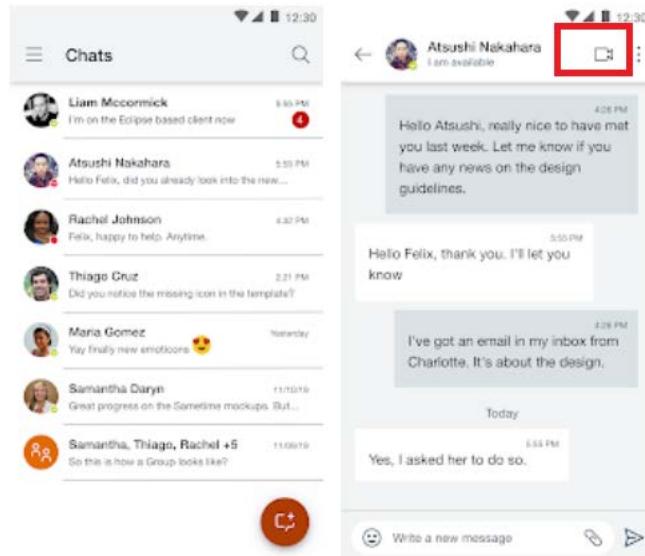
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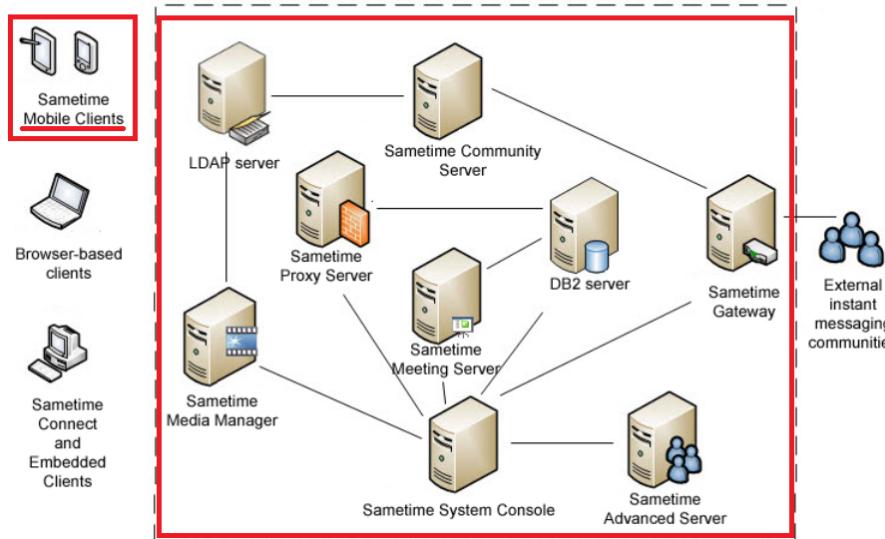
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Sametime server architecture

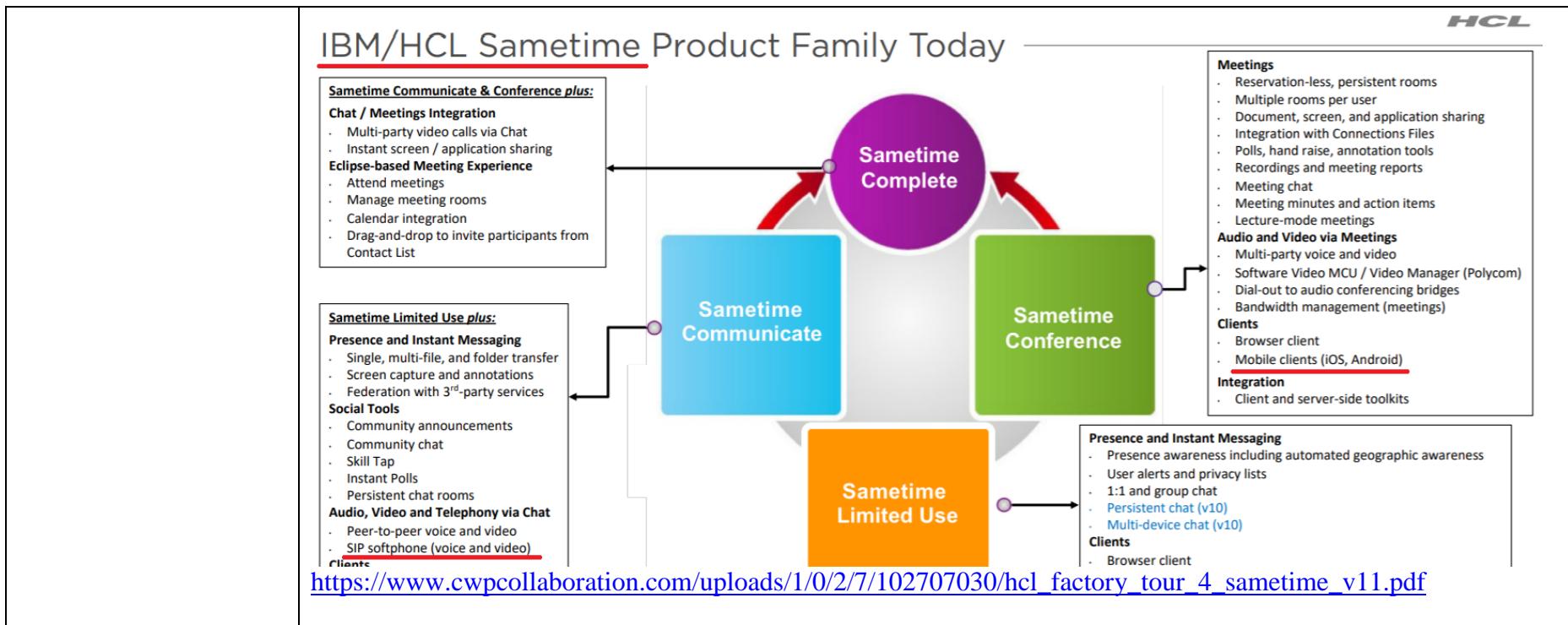
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https://help.hcltechsw.com/sametime/10.0/plan/over_server_arch.html

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(a) the wireless device is operable using a module (e.g., HCL Sametime application) that is responsible for contacting a server (e.g., HCL Sametime Server) to communicate with the server (e.g., HCL Sametime Server) over a wireless link (e.g., Wi-Fi/Cellular link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., HCL Sametime application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).	The wireless device (e.g., Smartphone) is operable using a module (e.g., HCL Sametime application) that is responsible for contacting a server (e.g., HCL Sametime Server) to communicate with the server (e.g., HCL Sametime Server) over a wireless link (e.g., Wi-Fi/Cellular link), wherein the wireless device (e.g., Smartphone) includes the module (e.g., HCL Sametime application) that is implemented as software and that is downloadable to the wireless device (e.g., Smartphone).

wireless device includes the module that is implemented as software and that is downloadable to the wireless device;



HCL Sametime

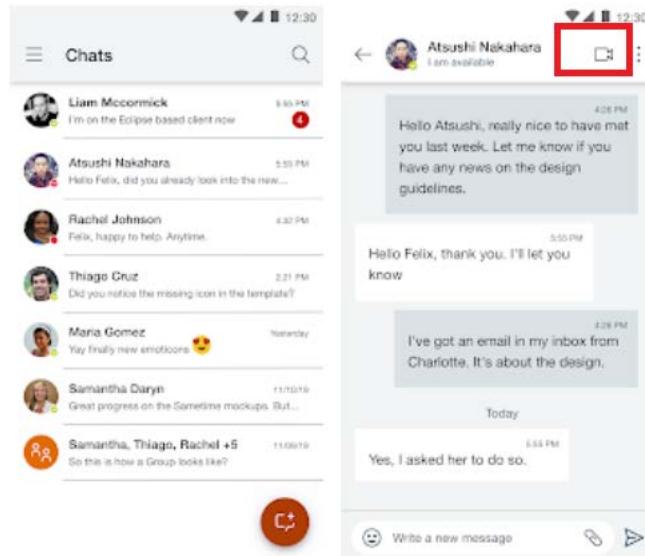
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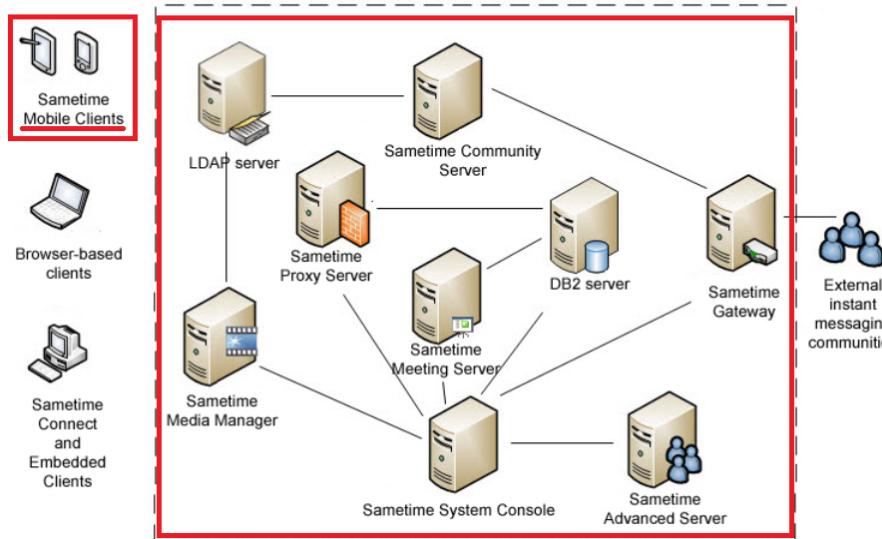
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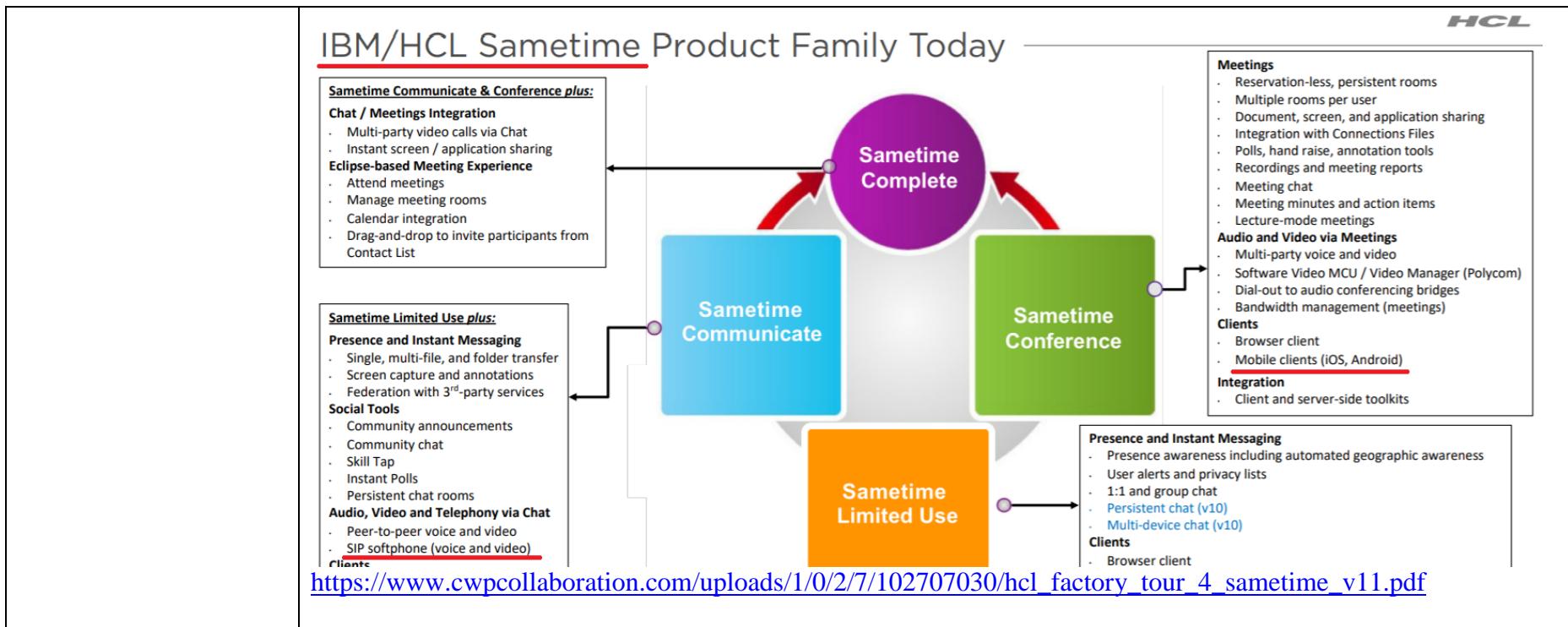
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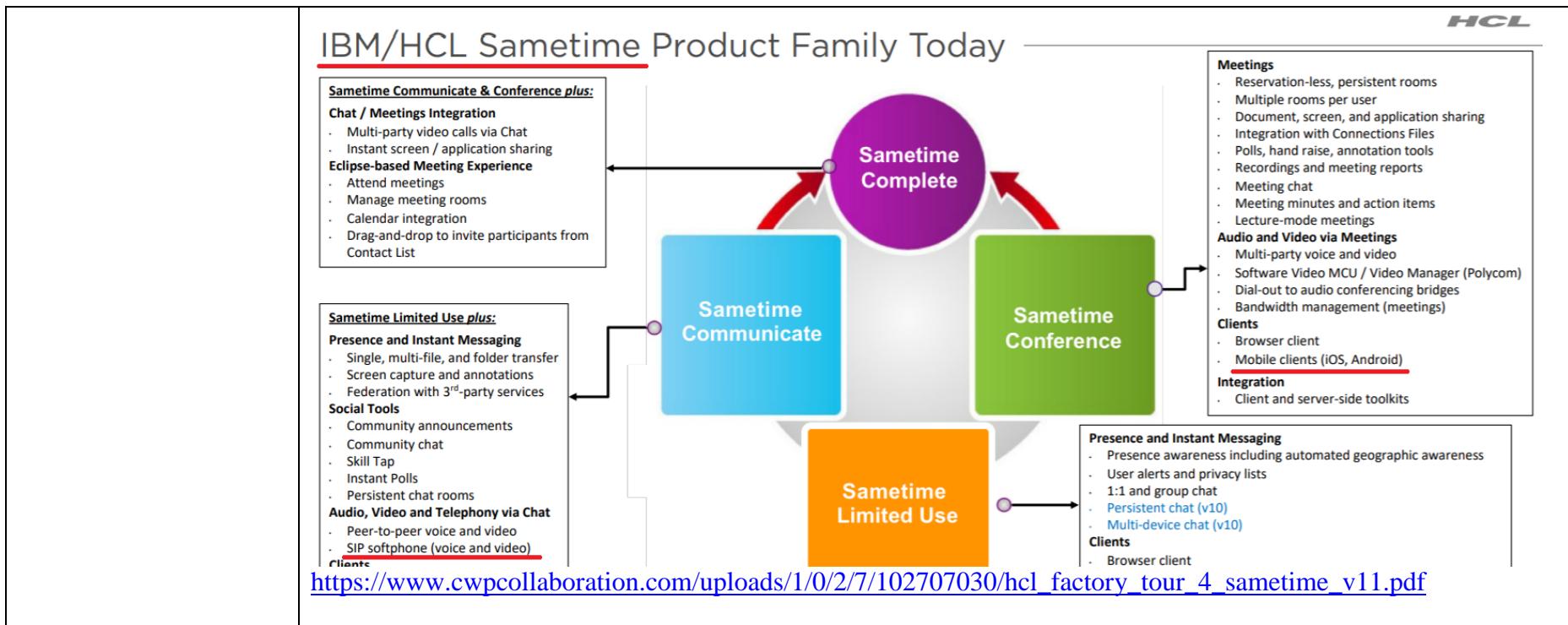
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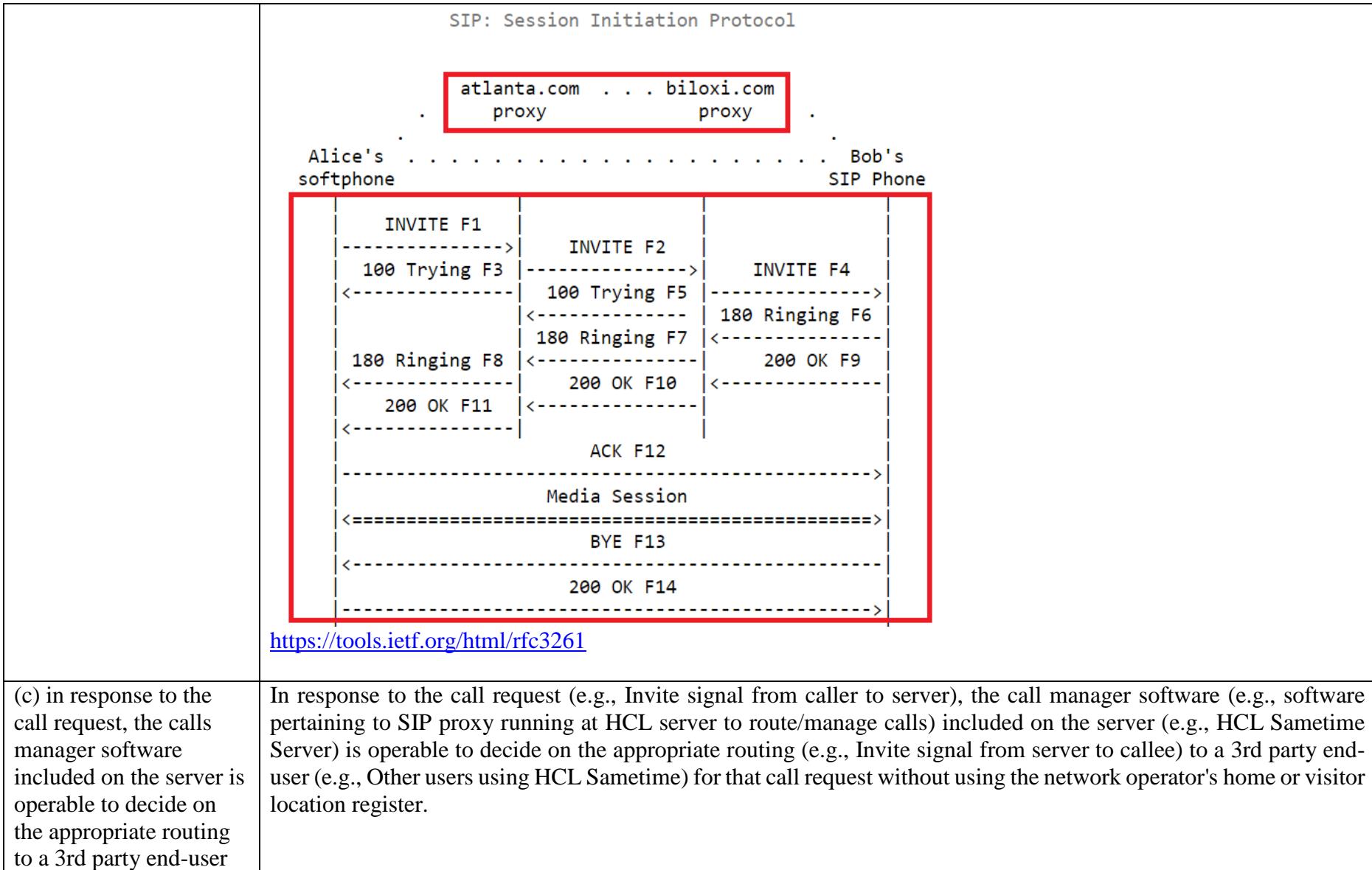
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(b) the wireless device is operable using the module to send, over the wireless link, data to the server that defines a call request;	The wireless device (e.g., Smartphone) is operable using the module (e.g., HCL Sametime application) to send, over the wireless link (e.g., Wi-Fi/Cellular link), data to the server (e.g., HCL Sametime Server) that defines a call request (e.g., Invite signal from caller to server).

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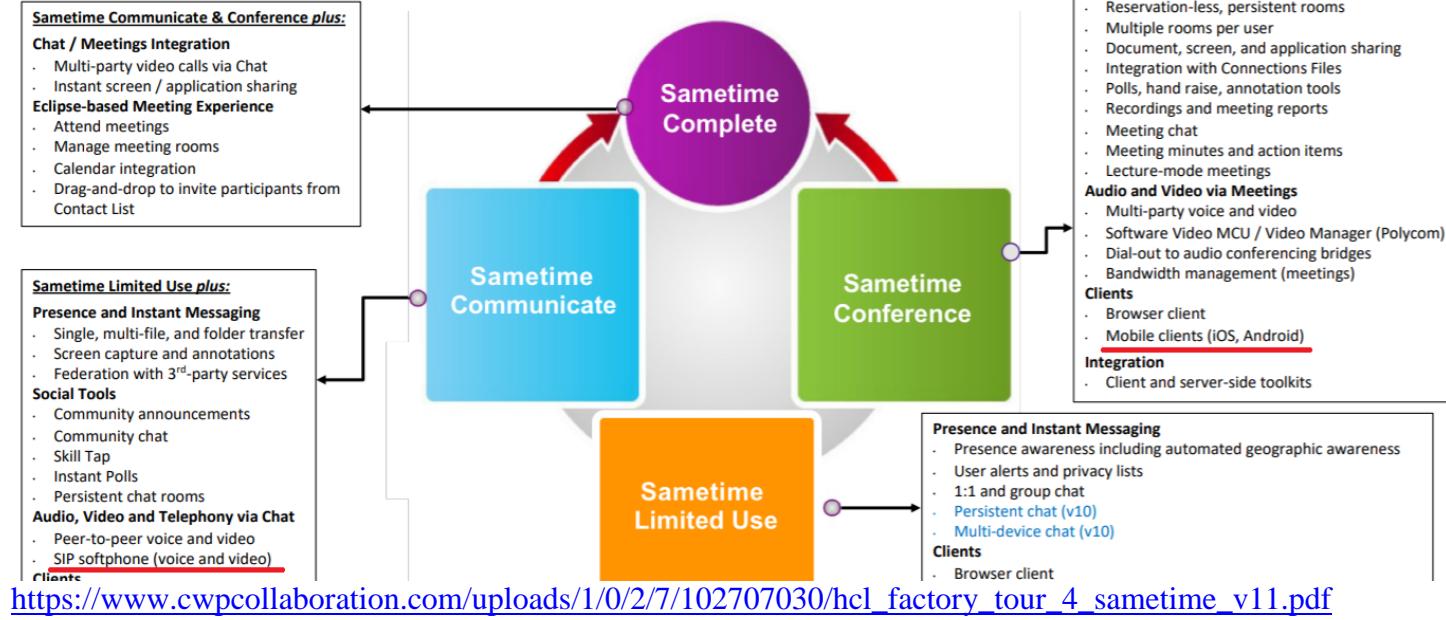




for that call request without using the network operator's home or visitor location register.

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HCL Sametime

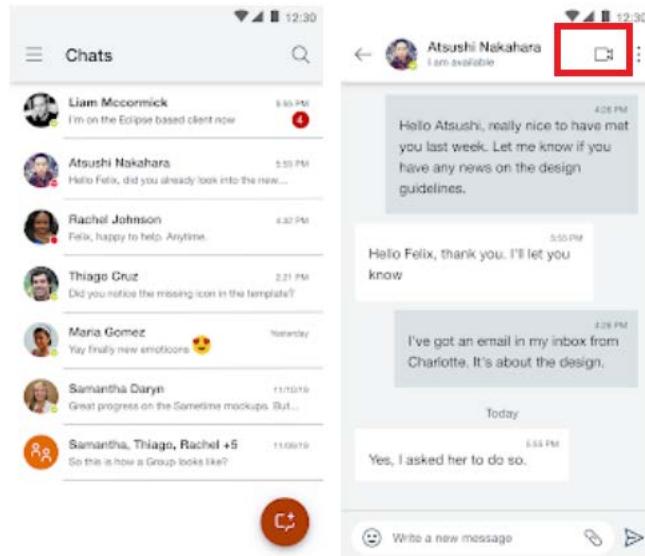
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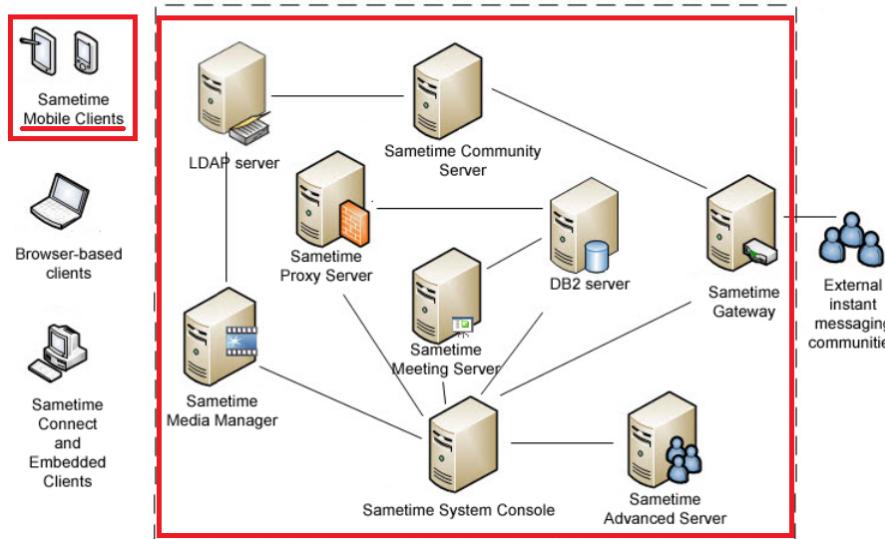
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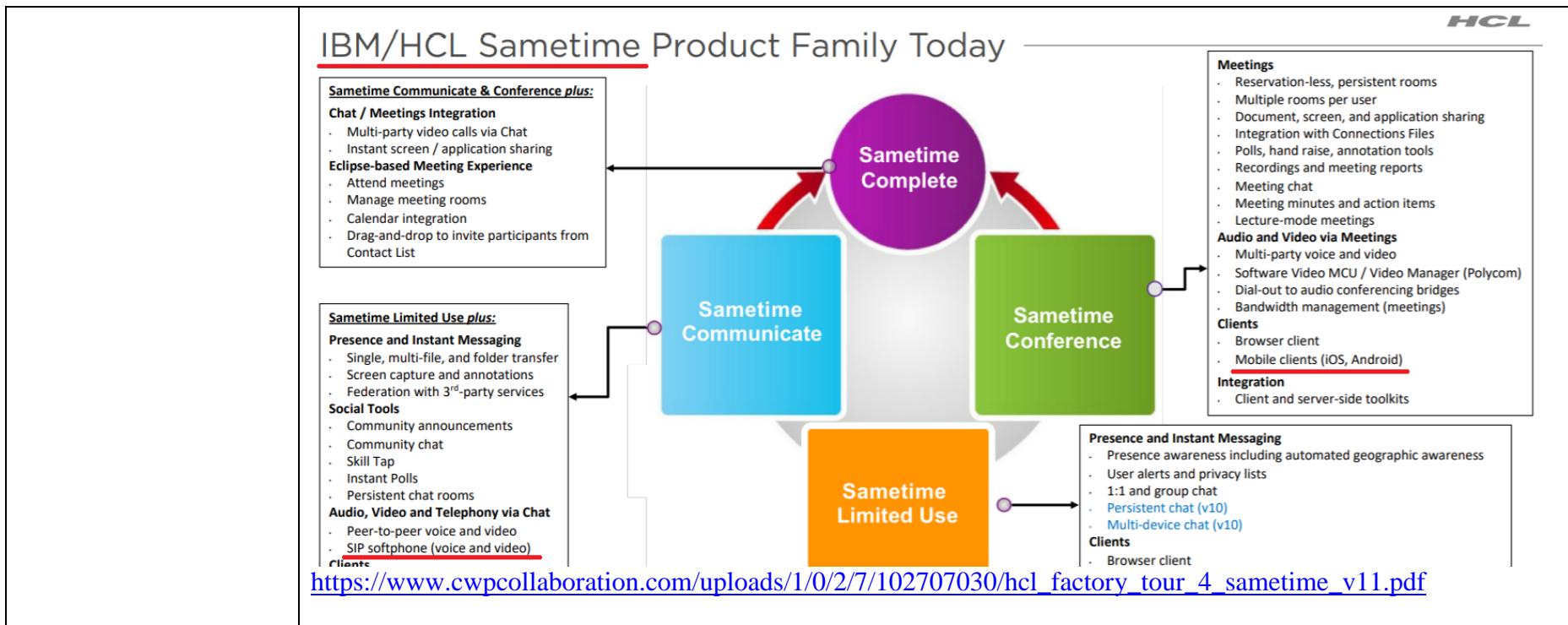
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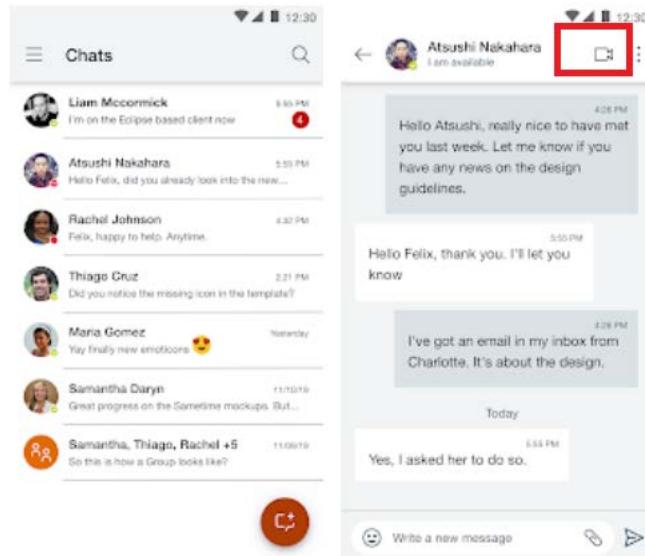
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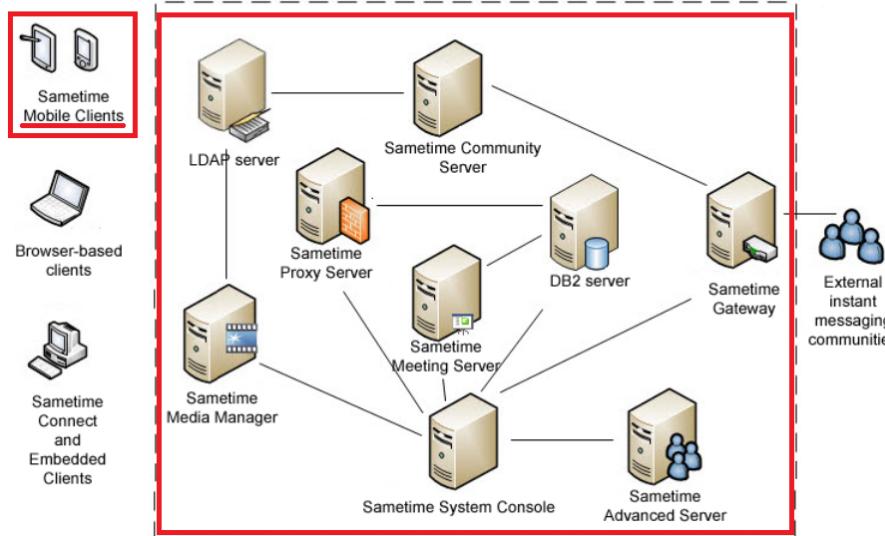
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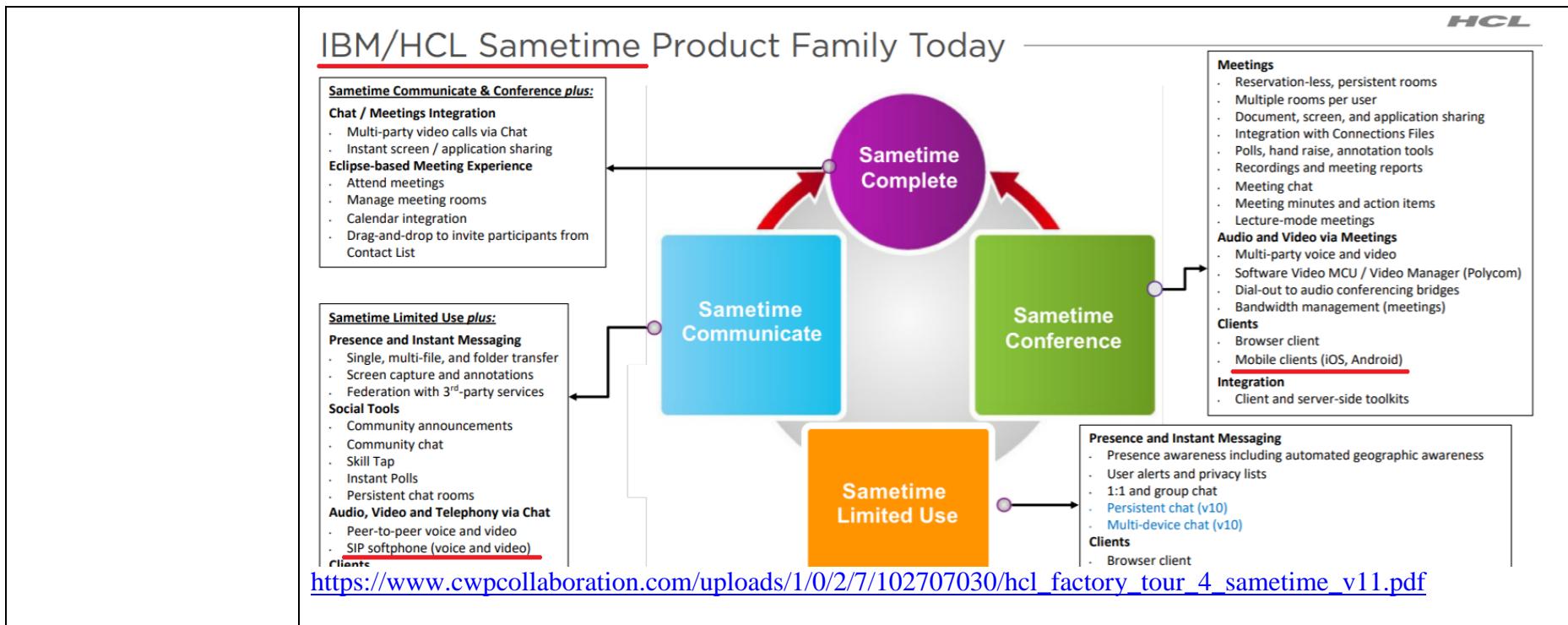
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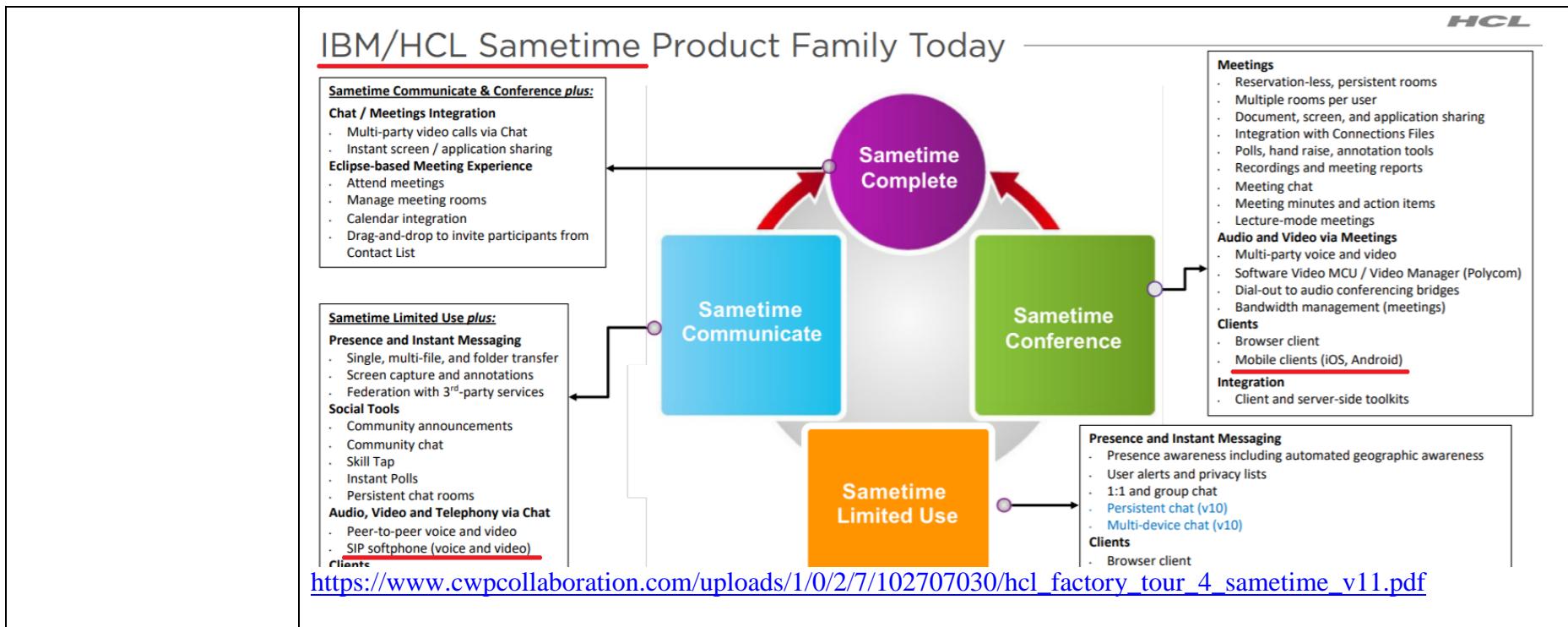
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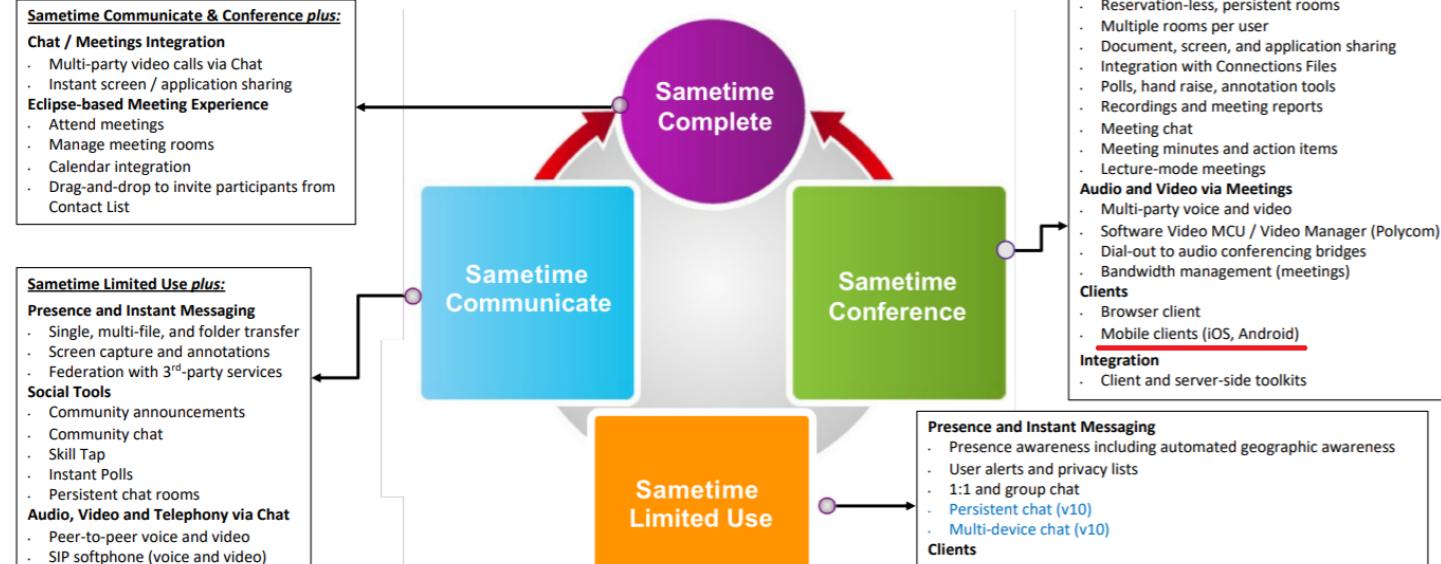


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(c) in response to the call request, the calls manager software included on the server is operable to decide on the appropriate routing to a 3rd party end-user	In response to the call request (e.g., Invite signal from caller to server), call manager software (e.g., software pertaining to SIP proxy running at HCL server to route/manage calls) included on the server (e.g., HCL Sametime Server) is operable to decide on the appropriate routing (e.g., Invite signal from server to callee) to a 3rd party end-user (e.g., Other users using HCL Sametime) for that call request (e.g., Invite signal from caller to server) without using the network operator's home or visitor location register.

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